Wiwynn™ SV7220-2

Maintenance

User Manual

Version 1.1

Published Sept. 2014

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System Upgrades

Replacing the SDD Trays

Removing the SSD Trays

1 Press the handle on the SSD tray (**1**), then pull out the SSD tray (**2**).

2 Repeat step one to pull out all SSD trays.

Installing the SSD Trays

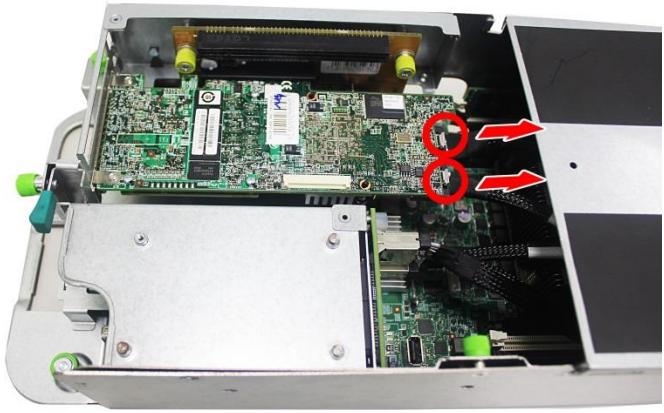
1 Insert the SSD tray into its slot in the chassis and push until it latches into place.

2 Repeat step one to install all SSD trays into the chassis.

Replacing the RAID Card

Removing the RAID Card

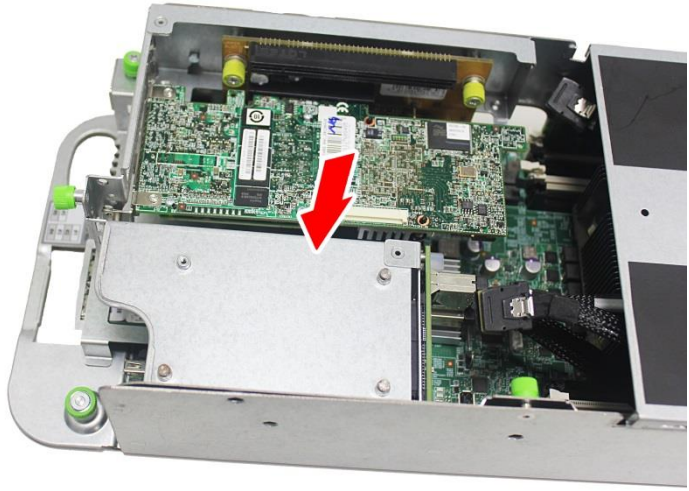
1 Disconnect the mini-SAS cables from the RAID card.



2 Loosen the thumbscrew that secures the latch to the chassis.

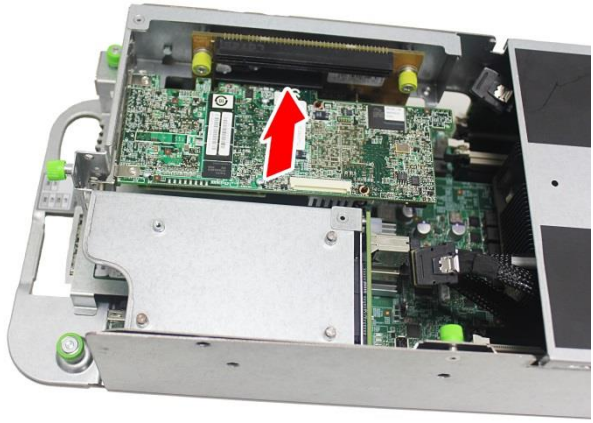
3 Remove the metal latch that secures the RAID card to the riser card.

4 Remove the RAID card from the PCIe riser card.



Installing the RAID Card

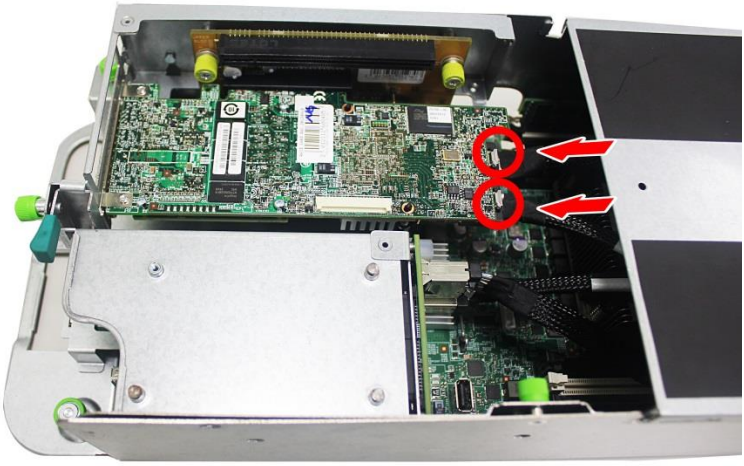
1 Insert the RAID card into the PCIe riser card and press until the RAID card latches into place.



2 Install the metal latch to secure the RAID card.

3 Tighten the thumbscrew to secure the RAID card to the chassis.

4 Connect the mini-SAS cables to the RAID card.

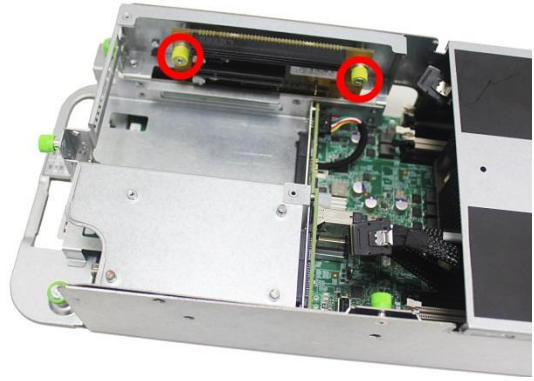


Replacing the PCIe Riser Card

Removing the PCIe Riser Card

1 Perform the "**Removing the RAID Card**" procedure on **page 7**.

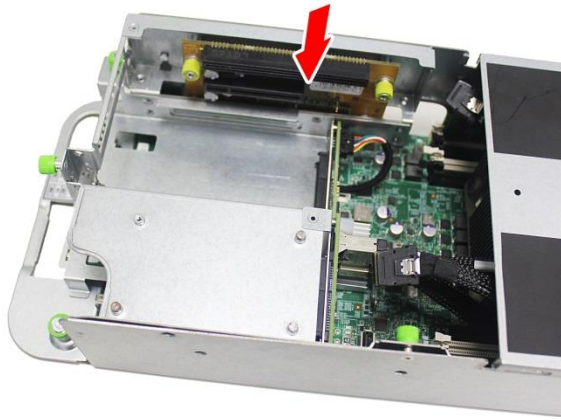
2 Loosen the two thumbscrews securing the PCIe riser card to the chassis.



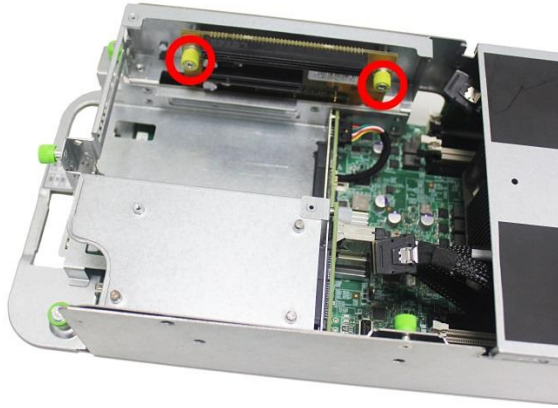
3 Remove the PCIe riser card from the mainboard.

Installing the PCIe Riser Card

1 Insert the PCIe riser card into its slot in the mainboard and press until it latches into place.



2 Tighten the two thumbscrews to secure the PCIe riser card to the chassis.



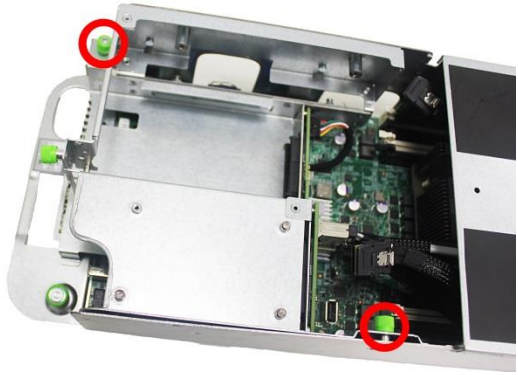
Replacing the Drive Cage

Removing the Drive Cage

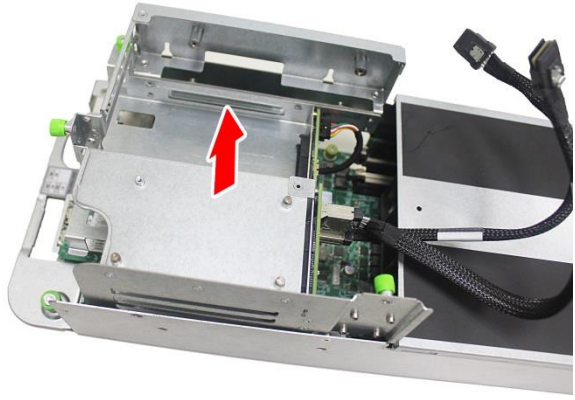
1 Perform the "**Removing the SSD Tray**" procedure on **page 5.**

2 Perform the "**Removing the PCIe Riser Card**" procedure on **page 11**.

3 Loosen the two thumbscrews that secure the drive cage to the chassis.

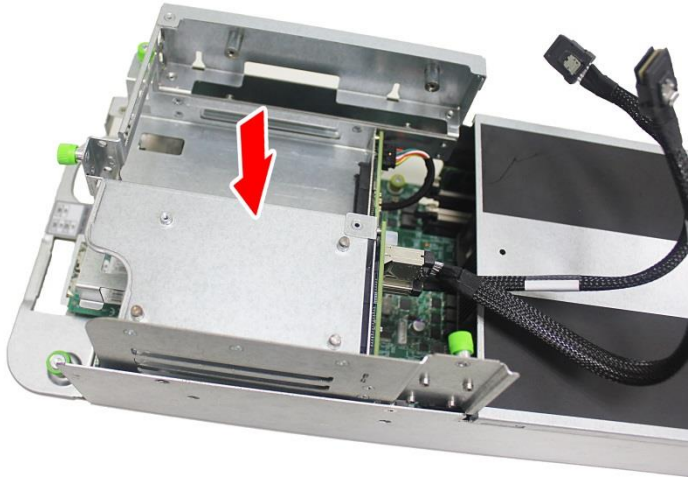


4 Remove the drive cage from the chassis.

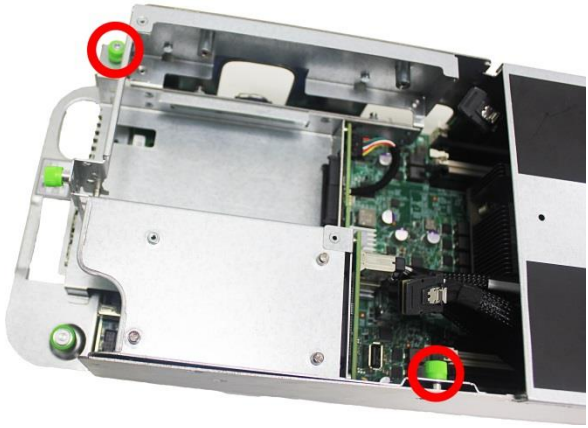


Installing the Drive Cage

1 Insert the drive cage into the chassis until it latches into place.



2 Tighten the two thumbscrews to secure the drive cage to the chassis.

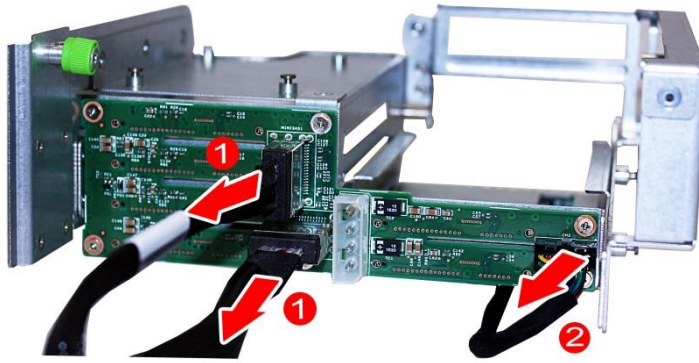


Replacing the SAS Backplane Board

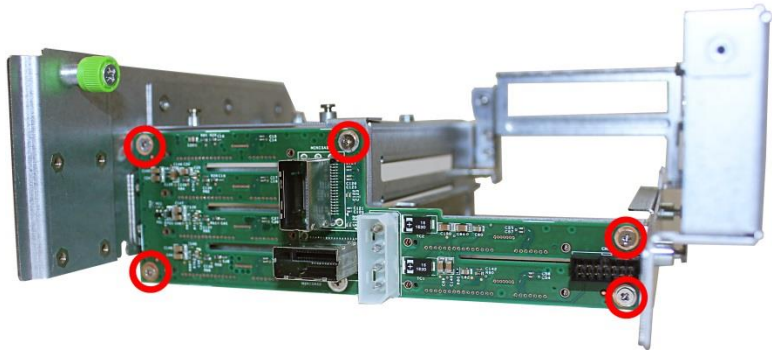
Removing the SAS Backplane Board

1 Perform the "**Removing the Drive Cage**" procedure on **page 13**.

2 Disconnect the mini-SAS cables (**1**) and the LED cable (**2**) from the SAS backplane board.

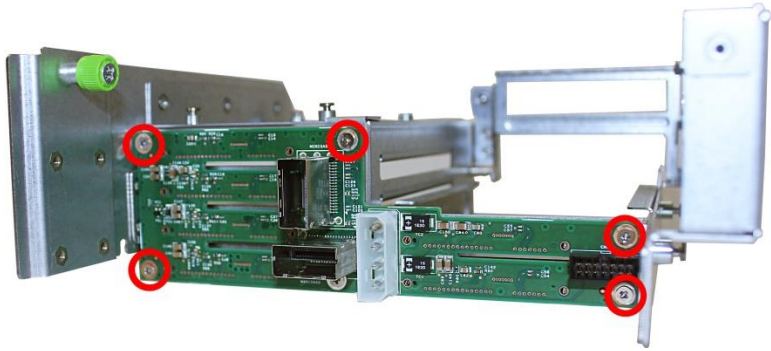


3 Remove the five screws securing the SAS backplane board to the drive cage.

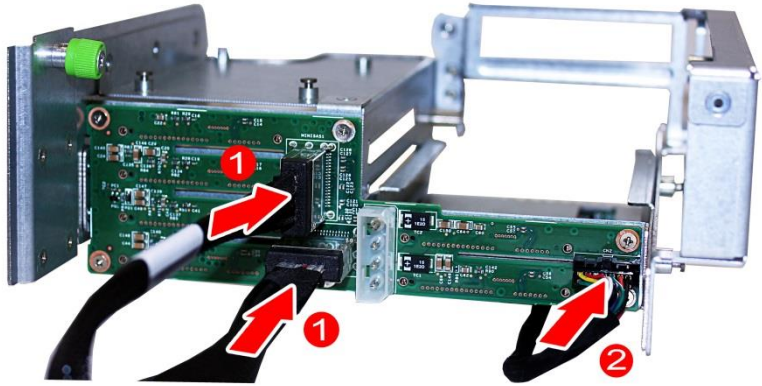


Installing the SAS Backplane Board

1 Secure the SAS backplane board to the drive cage using five screws.



2 Connect the mini-SAS cables (**1**) and the LED cable (**2**) to the SAS backplane board.

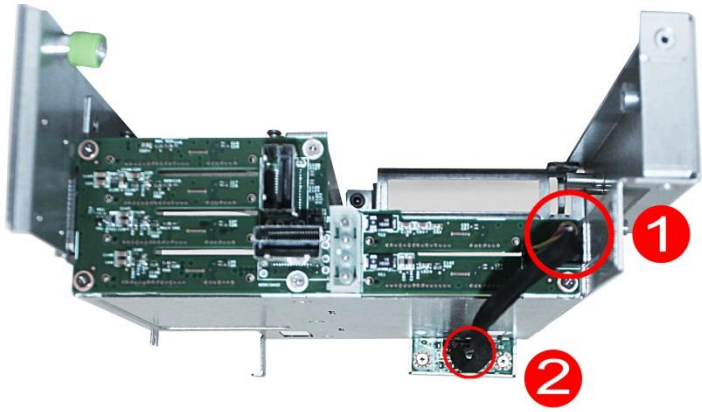


Replacing the LED Board

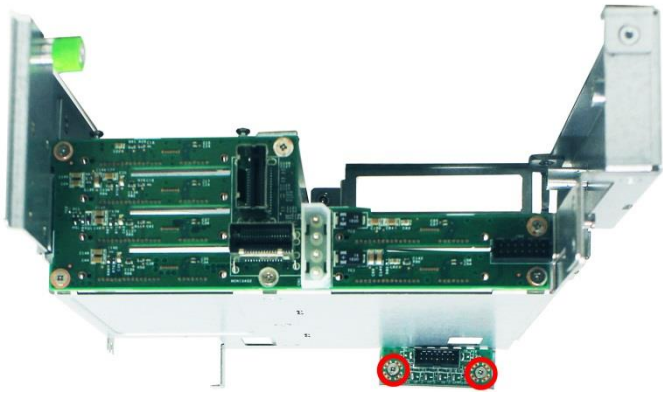
Removing the LED Board

1 Perform the "**Removing the Drive Cage**" procedure on **page 13**.

2 Disconnect the LED cable from the SAS backplane board (**1**) and the LED board (**2**).

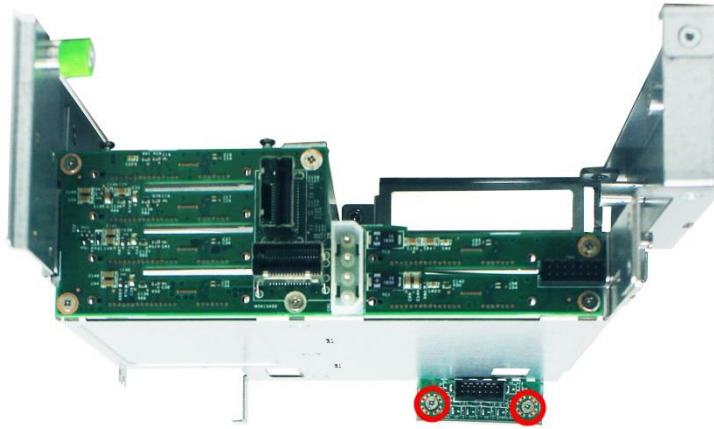


3 Remove the two screws securing the LED board to the cage drive.

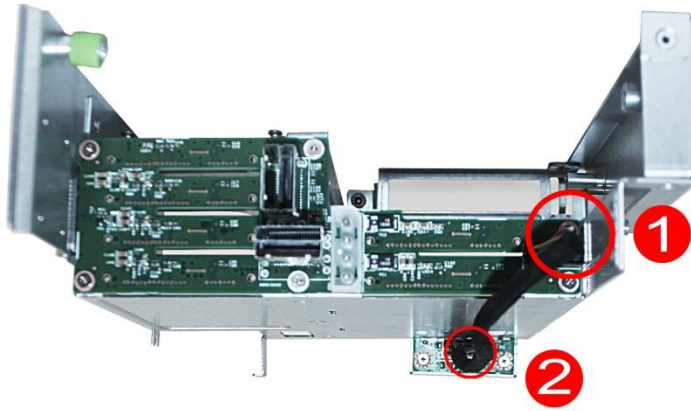


Installing the LED Board

1 Secure the LED board to the drive cage using two screws.



2 Connect the LED cable to the SAS backplane board (**1**) and the LED board (**2**).

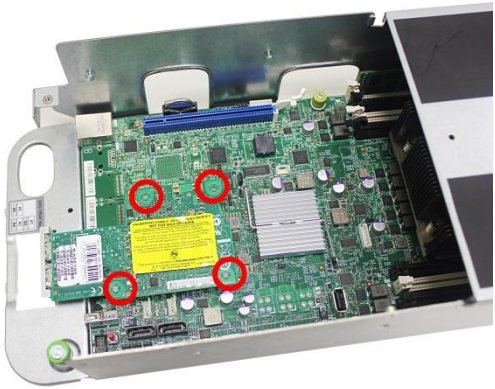


Replacing the Mezzanine Card

Removing the Mezzanine Card

1 Perform the "**Removing the Drive Cage**" procedure on **page 13**.

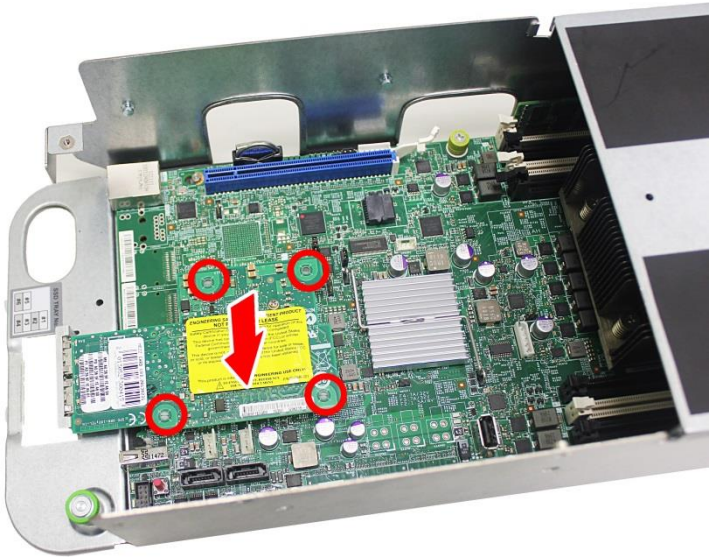
2 Pinch the four retainer plug that secures the mezzanine card to the mainboard.



3 Detach the mezzanine card from the mainboard.

Installing the Mezzanine Card

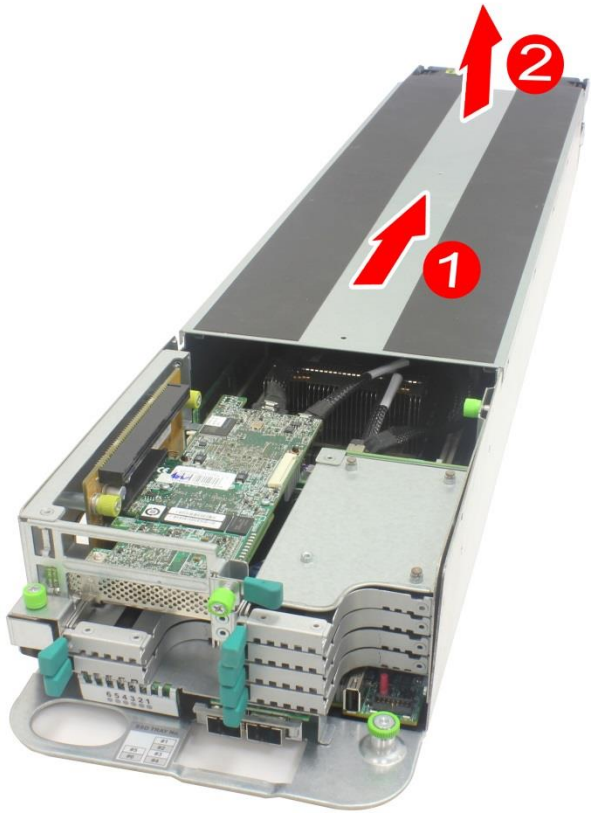
1 Position the mezzanine card over the mainboard with the holes aligned with the corresponding retainer plugs. Gently push the mezzanine card until the retainer plugs latch into place.



Replacing the System Cover

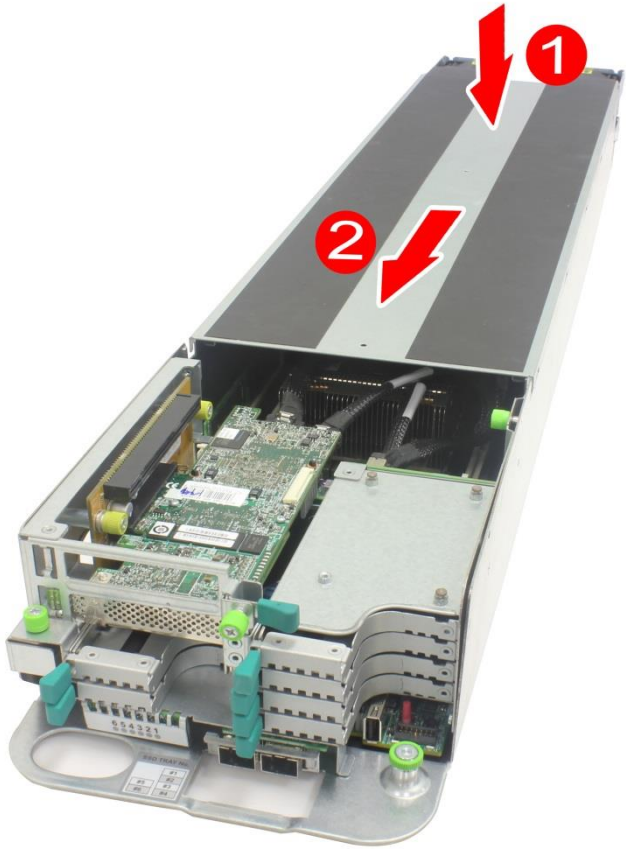
Removing the System Cover

1 Slide the cover toward the rear of the system (**1**) to disengage the latches securing the cover to the chassis, then lift the cover off the chassis (**2**).



Installing the System Cover

1 Insert the system cover into its slot in the chassis (**1**) and push towards the front of the system (**2**) until the system cover latches into place.

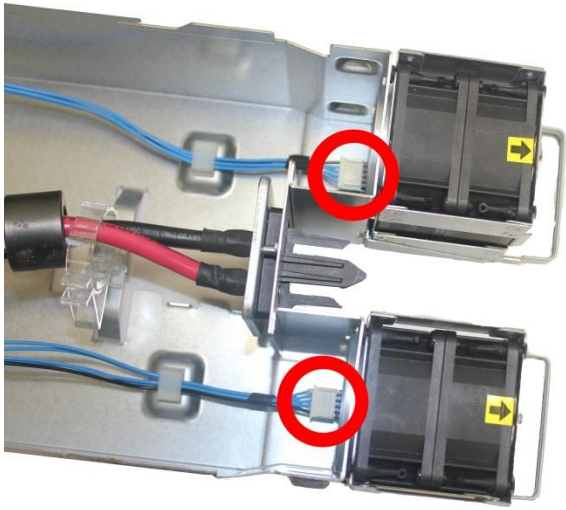


Replacing the System Fan

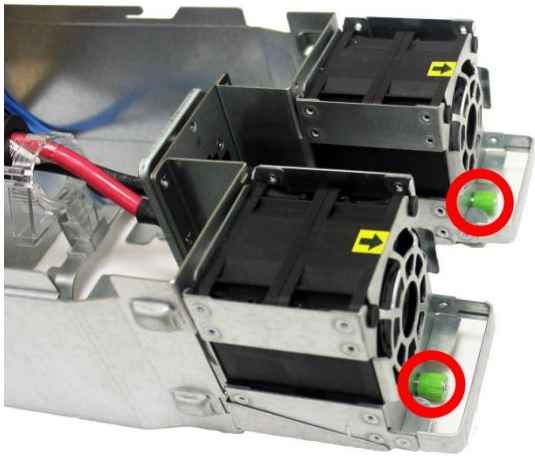
Removing the System Fan

1 Perform the "**Removing the System Cover**" procedure on **page 21**.

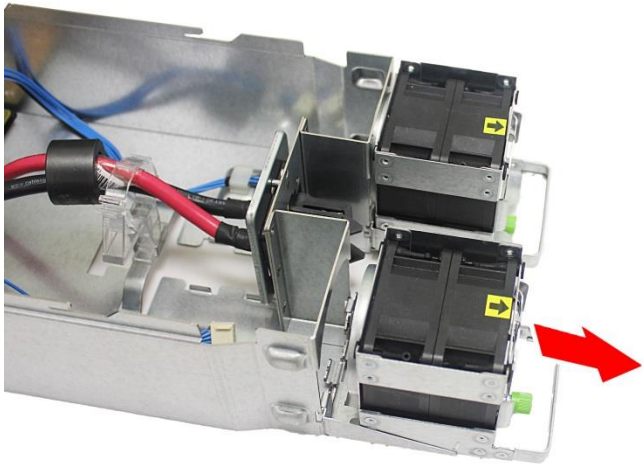
2 Disconnect the fan cable from the fan.



3 Loosen the thumbscrew that secures the system fan to the chassis.



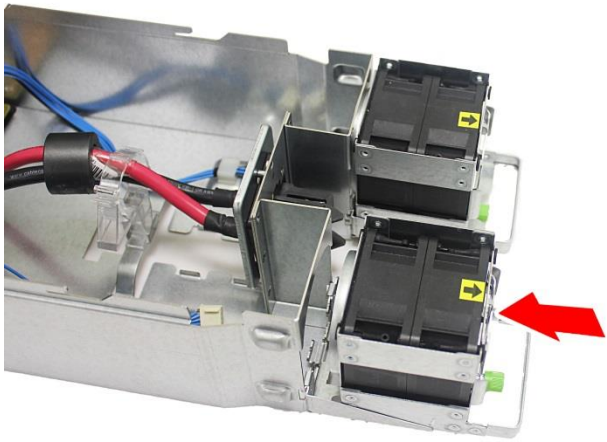
4 Pull out the system fan from the chassis.



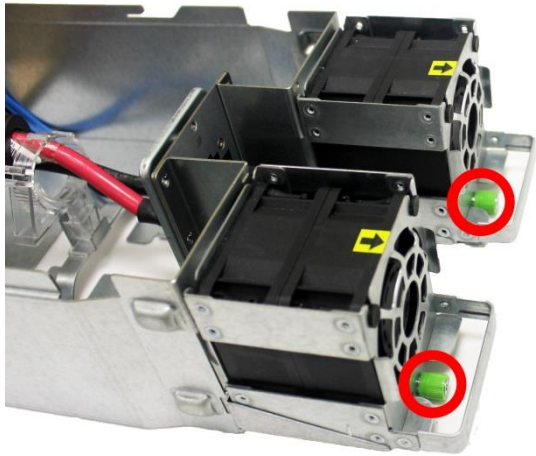
5 Repeat the steps above to remove the other fan.

Installing the System Fan

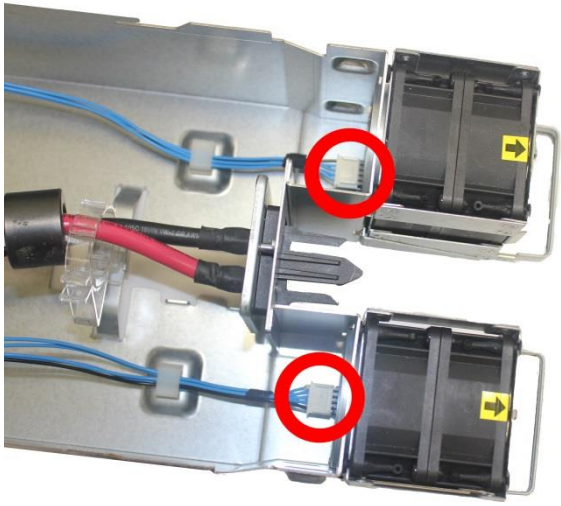
1 Insert the system fan into the chassis.



2 Tighten the thumbscrew to secure the system fan to the chassis.



3 Connect the fan cable to the fan.



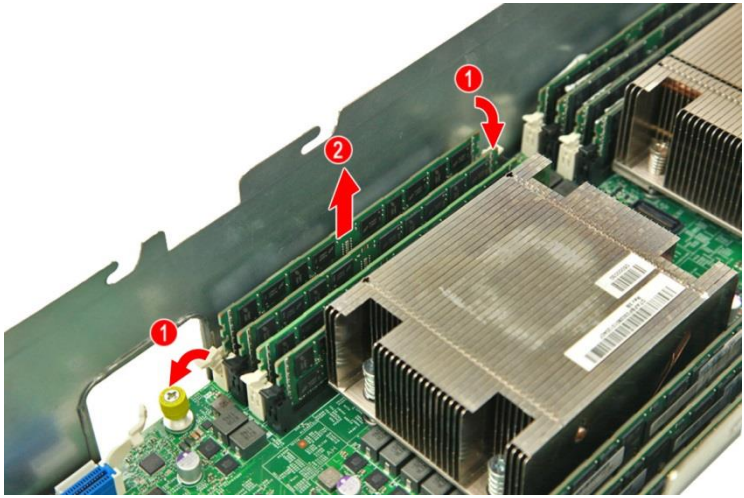
Replacing the Memory Modules

Removing the Memory Module

1 Perform the "**Removing the System Cover**" procedure on **page 21**.

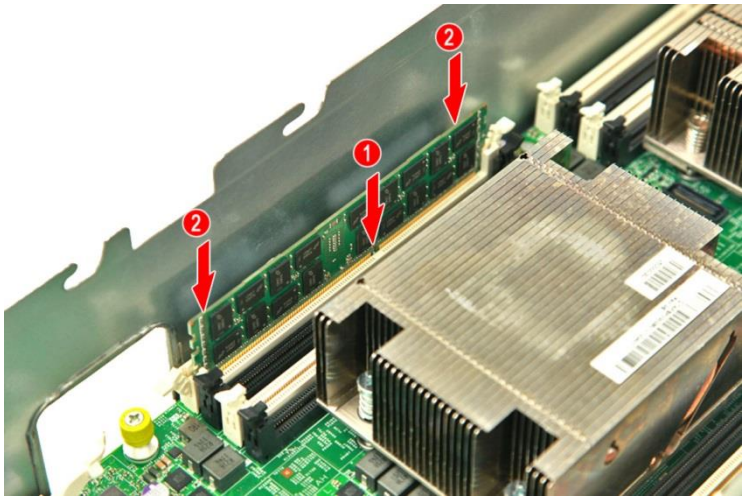
2 Open the locking clips (**1**) that secures the memory module.

3 Gently pull the DIMM upward (**2**) to pull it away from the chassis.



Installing the Memory Modules

1 Insert the memory module into the DIMM slot (**1**) then push downward (**2**) until the locking clips latch into place.



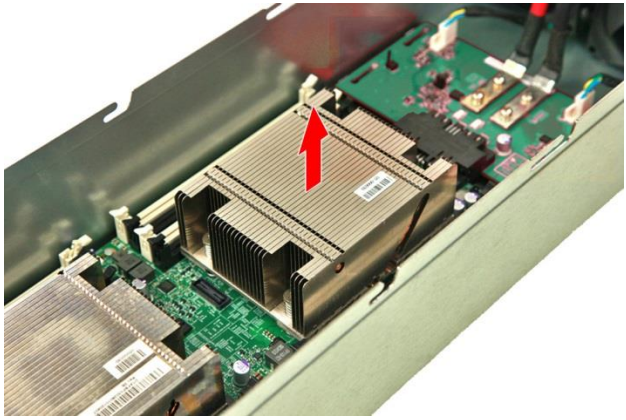
Replacing the Heatsink

Removing the Heat Sink

1 Perform the "**Removing the System Cover**" procedure on **page 21**.

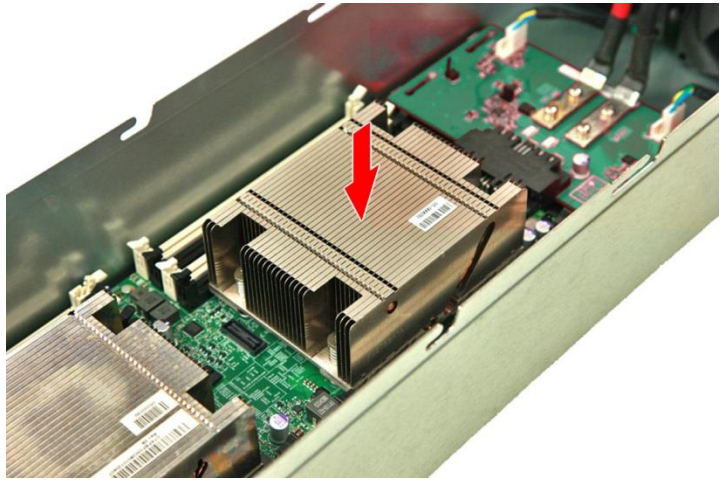
2 Use a Phillips screwdriver to loosen the four screws on the heat sink.

3 Lift the heat sink away from the mainboard.

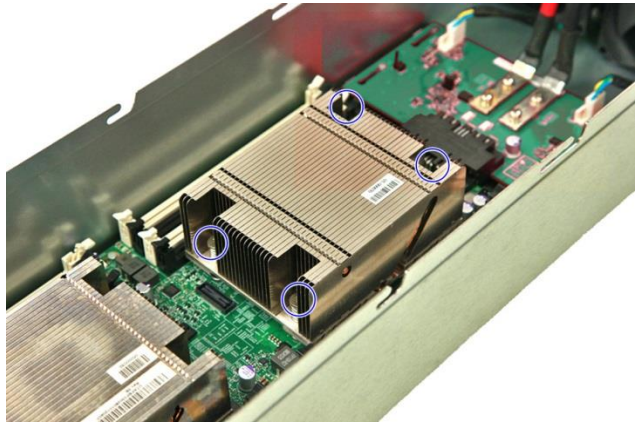


Installing the Heat Sink

1 Place the heat sink into the mainboard and make sure that the screw posts are aligned with the screws on the heatsink.



2 Use a Phillips screwdriver to tighten the four screws on the heat sink.



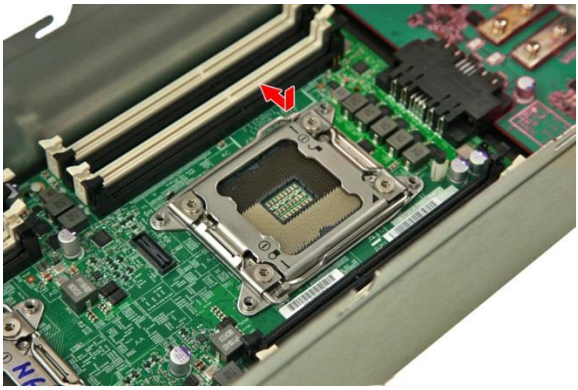
Replacing the Processor

Removing the Processor

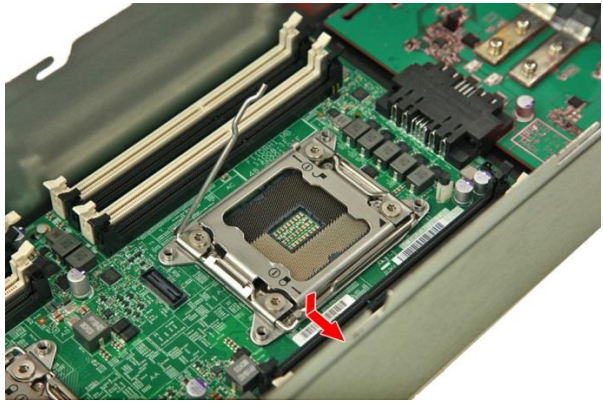
IMPORTANT: Before removing the processor from the mainboard, make sure to create a backup file of all important data.

1 Perform the "**Replacing the Heat Sink**" procedure on **page 28**.

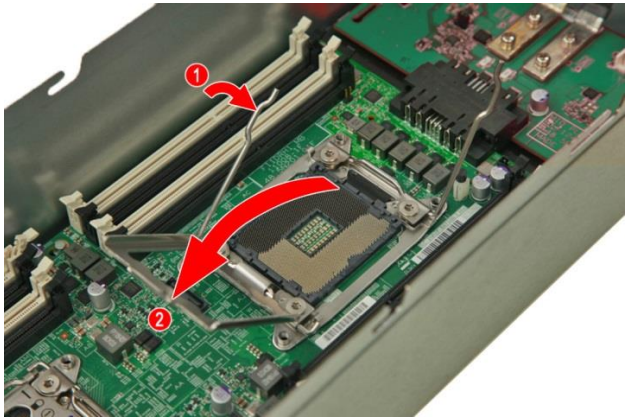
2 Release and pull up the load lever marked with unlocked icon.



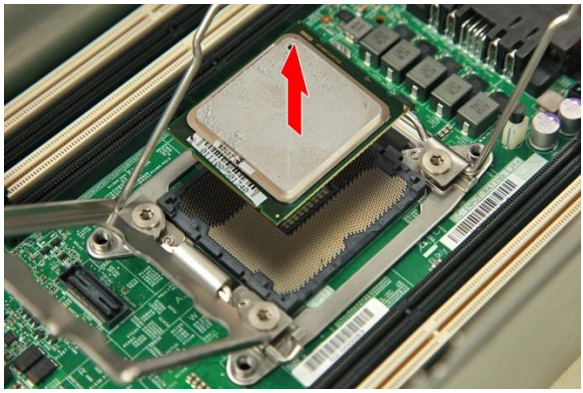
3 Release and pull up the load lever marked with locked icon.



4 Flip open the processor cover.

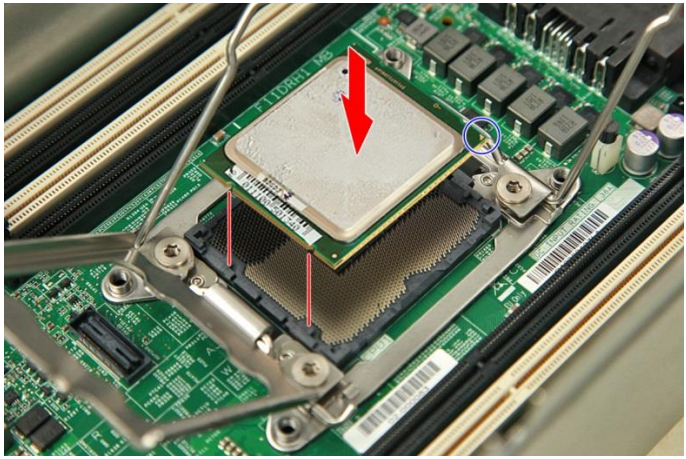


5 Pull out the processor from the socket.

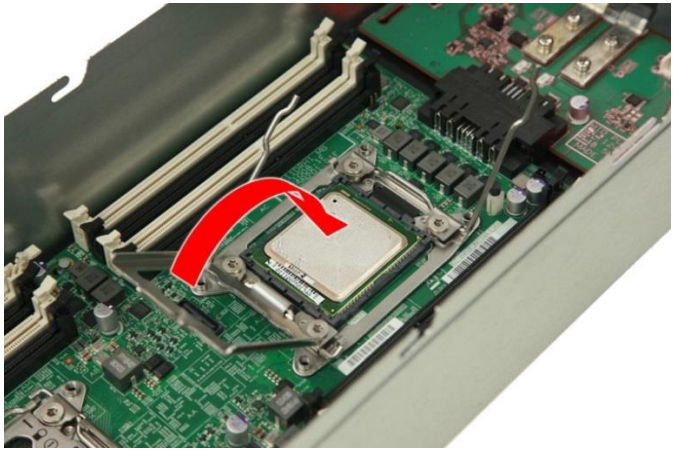


Installing the Processor

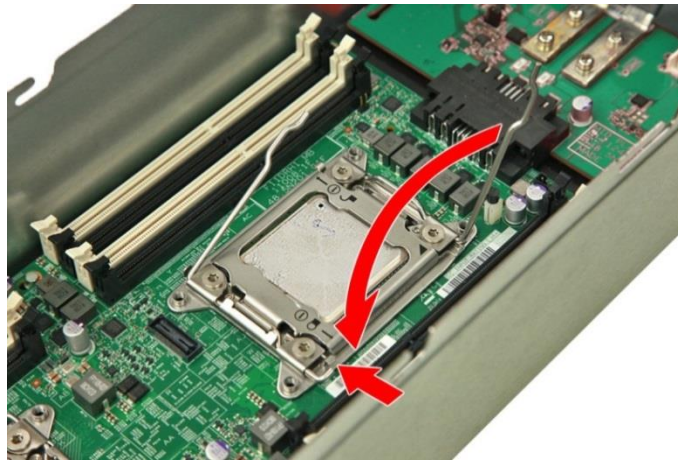
1 Place the processor into the socket and make sure that it sits in the correct position.



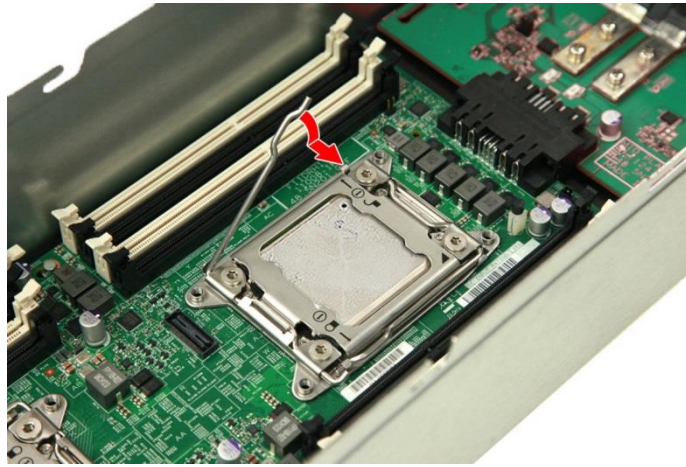
2 Lower the processor cover into place.



3 Press the load lever marked with locked icon downward until it latches into place.



4 Press the load lever marked with unlocked icon downward until it latches into place.

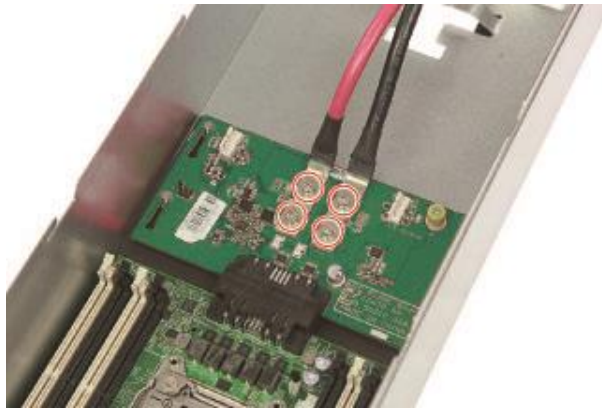


Replacing the Bus Bar Cables

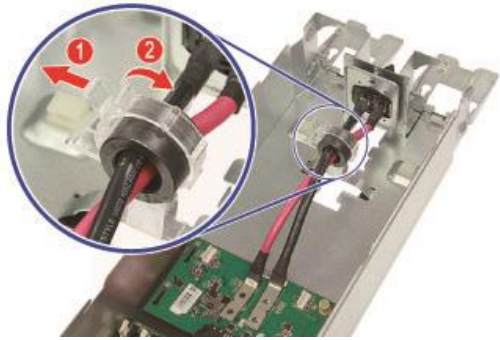
Removing the Bus Bar Cables

1 Perform the "**Removing the System Cover**" procedure on **page 21**.

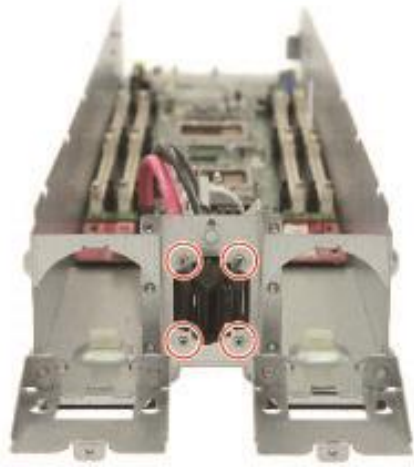
2 Remove the four screws that secure the bus bar cables to the midplane board.



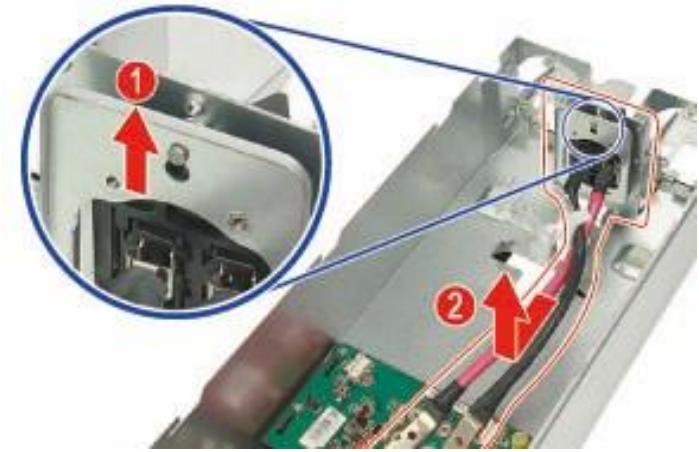
3 Disengage the cable clip securing the bus bar cables to the chassis.



4 Remove the four screws securing the bus bar cables to the chassis.

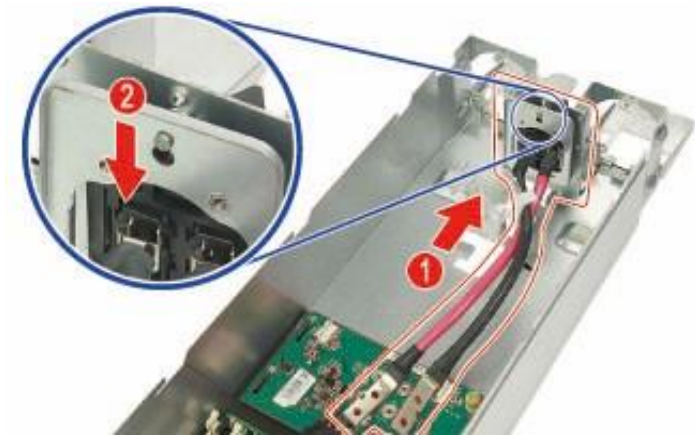


5 Detach the bus bar cables from the chassis.

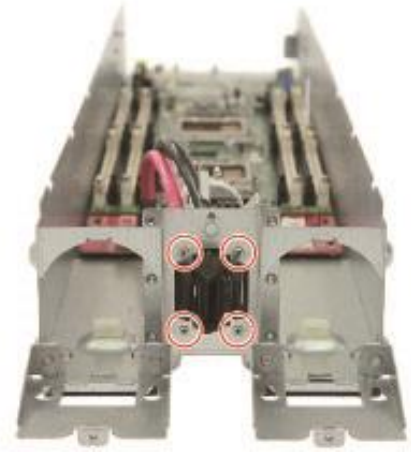


Installing the Bus Bar Cables

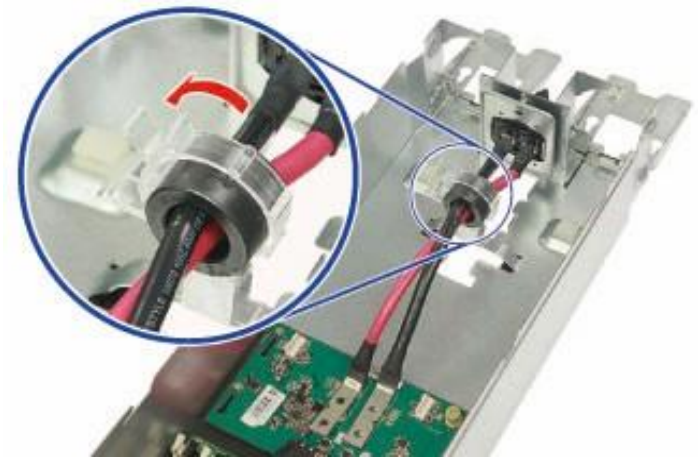
1 Insert the bus bar cables into the chassis as shown.



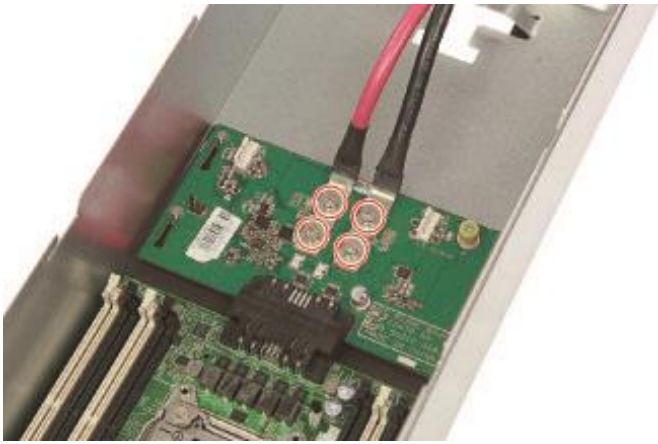
2 Secure the bus bar cables to the chassis using four screws.



3 Lock the cable clip to secure the bus bar cables to the chassis.



4 Secure the bus bar cables to the midplane board using four screws.



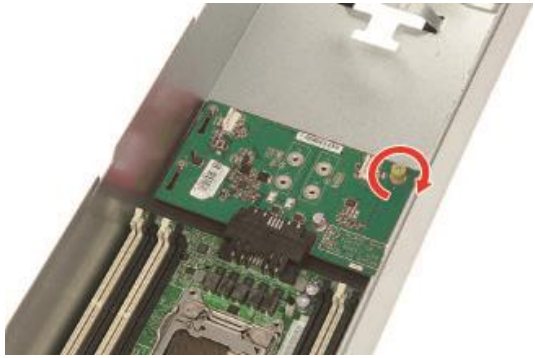
Replacing the Midplane Board

Removing the Midplane Board

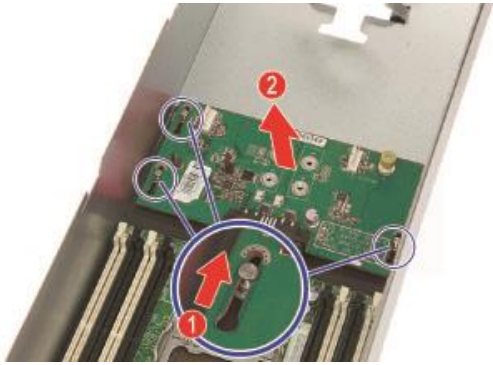
1 Perform the "**Removing the System Fan**" procedure on **page 23**.

2 Perform the "**Removing the Bus Bar Cables**" procedure on **page 35**.

3 Loosen the thumbscrew securing the midplane board to the chassis.

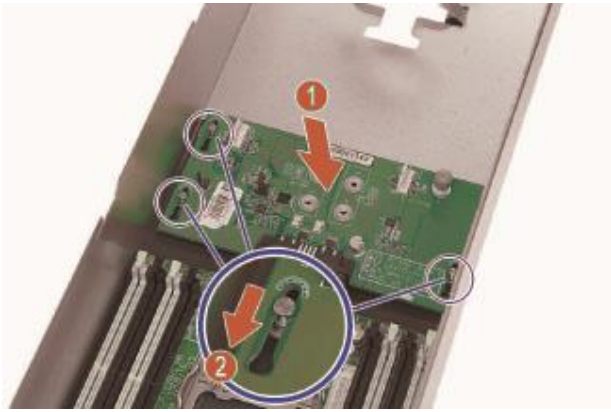


4 Slide the midplane board to disengage it from the retaining pins (**1**) then lift it off the chassis (**2**).



Installing the Midplane Board

1 Place the midplane board into the retaining pins of the chassis (**1**) then slide it towards the mainboard until it latches into place (**2**).



2 Tighten the thumbscrew to secure the midplane board to the chassis.

Replacing the RTC Battery

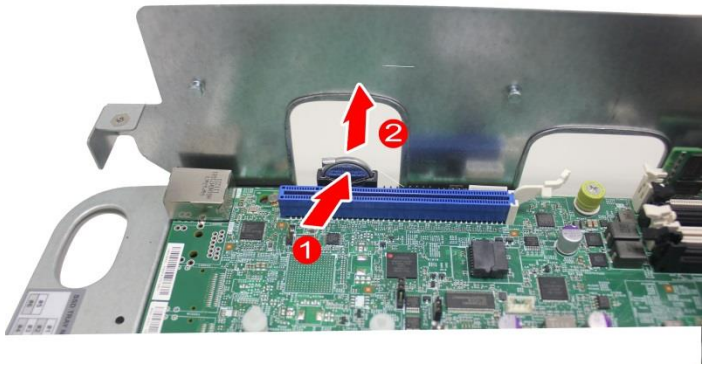
Removing the RTC Battery

1 Perform the "**Removing the RAID Card**" procedure on **page 7**.

2 Perform the "**Removing the PCIe Riser Card**" procedure on **page 11**.

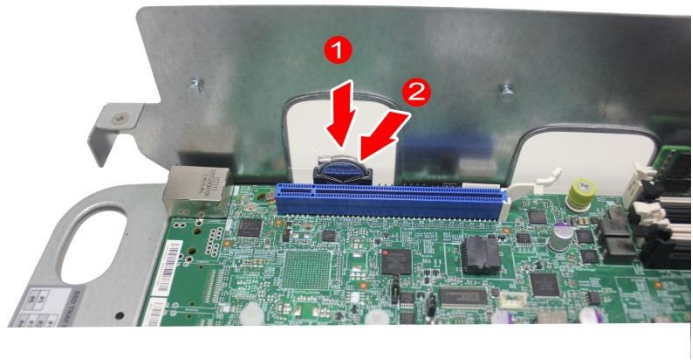
3 Perform the "**Removing the Drive Cage**" procedure on **page 13**.

4 Gently push the latch securing the RTC battery (**1**), then lift the RTC battery off the mainboard (**2**).



Installing the RTC Battery

1 Gently insert the RTC battery on its socket (**1**), then push sideways (**2**) until it latches into place.



Replacing the Mainboard

Removing the Mainboard

1 Perform the "**Removing the Midplane Board**" procedure on **page 39**.

2 Loosen the thumbscrew that secures the mainboard to the chassis.

3 Slide the mainboard to disengage it from the retaining pins then lift it off the chassis.

Installing the Mainboard

1 Place the mainboard into the retaining pins of the chassis then slide it towards the front as shown until it latches into place.

2 Tighten the thumbscrew to secure the mainboard to the chassis.